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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/615,838	07/10/2003	Isao Sendo	030784	8880
38834	7590 04/26/2005		EXAMINER	
	IAN, HATTORI, DA ECTICUT AVENUE. 1	TAPOLCAI, WILLIAM E		
SUITE 700	ECTICOT AVENUE, I	ART UNIT	PAPER NUMBER	
WASHINGT	TON, DC 20036		3744	

DATE MAILED: 04/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	Application No.	Applicant(s)				
Office Action Summary		10/615,838	SENDO ET AL.				
		Examiner	Art Unit				
		William E. Tapolcai	3744				
Period f	The MAILING DATE of this communication ap or Reply	pears on the cover sheet v	vith the correspondence add	iress			
THE - External control	MORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1. r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a replay period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statutal reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a bly within the statutory minimum of the will apply and will expire SIX (6) MC e, cause the application to become A	reply be timely filed irty (30) days will be considered timely NTHS from the mailing date of this contained to the contained the				
Status							
1)🖂	Responsive to communication(s) filed on 06 A	April 2005.					
· · · · · · · · · · · · · · · · · · ·		s action is non-final.					
3)	·—						
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.				
Disposit	tion of Claims						
4)⊠	Claim(s) 1.3 and 4 is/are pending in the applic	cation.					
	4a) Of the above claim(s) is/are withdra	awn from consideration.					
5)[	Claim(s) is/are allowed.						
· ·	☑ Claim(s) <u>1,3 and 4</u> is/are rejected.						
	Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and/	or election requirement.					
Applicat	tion Papers		•				
-	9)☐ The specification is objected to by the Examiner.						
10)	0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)[	The oath or declaration is objected to by the E	xaminer. Note the attache	ed Office Action or form PT	O-152.			
Priority	under 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreig  All b) Some * c) None of:  1. Certified copies of the priority document		§ 119(a)-(d) or (f).	,			
	2. Certified copies of the priority documen	its have been received in	Application No				
	3. Copies of the certified copies of the price application from the International Burea	=	n received in this National S	Stage			
*	See the attached detailed Office action for a lis	• • • • • • • • • • • • • • • • • • • •	t received.				
		•					
Attachmen		🗖					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) o(s)/Mail Date				
3) Infor	rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date		Informal Patent Application (PTO	-152)			
		,					

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- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1, 3, and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eybergen, newly cited. Eybergen discloses the claimed invention, including the center disk of the power element 14 being in abutment with an inner wall of the housing 16, 18. However, Eybergen does not disclose the recited limitation of the flow rate corresponding to a tonnage set as a capacity which can pass a maximum flow rate. The setting of the flow rate of the refrigerant flowing through the valve is considered to be a matter of obvious choice to one of ordinary skill in expansion valves. No criticality or unexpected results are seen or have been disclosed for the flow rate corresponding to a set tonnage. Furthermore, one of ordinary skill in expansion valves would be able to correspond the flow rate as needed or desired.
- 3. Applicant's arguments, see page 5, filed April 6, 2005, with respect to the rejection of claim 1 under Kawakami et al have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground of rejection is made in view of Eybergen, newly cited. The holder 38 of Eybergen is clearly below the inner wall of the housing member 14, 18 so that it does not block the center disk of the diaphragm 20 from abutting the inner wall 18, as claimed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William E. Tapolcai whose telephone number is (703) 308-2640. The examiner can normally be reached on Mon. - Thurs., 6:30 to 5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise L. Esquivel can be reached on (703) 308-2597. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William E. / apolcai Primary Examiner Art Unit 3744

wet April 18, 2005